



SAFETY LOCK FOR SEMI-AUTOMATIC  
HANDGUNS

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GROUP 3600

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appl. #09/788,098  
File date: 06/04/01  
DATE: 1/13/04

Amendment To Specifications

~~When installed on a weapon this lock prevents the safety from being taken from safe to fire position. This device will provide a back up to a gun's existing safety. The safety lock can be engaged and disengaged by inserting a key into the safety lock, pressing down and turning; see diagram on page 6 of 7. This device can be added to existing weapons by drilling a hole just below the safety and inserting device. See page 6. It can also be added to new guns at the time of manufacture. Thus becoming a part of the weapon, eliminating the necessity of putting a device on and taking it off each time the weapon is used. FIG. 12 shows bottom of core with lockarms, spring pins, key grooves and two springs. This can be found on page 3 of 7. Also shown on this page, FIGS. 10 and 11 shows lock in fire position, (FIG. 10) and in safe position, (FIG. 11). Exploding view shows how device is assembled; see page 4 of 7. FIG. 5A (base plate) shown on page 2 of 7 is secured to bottom of FIG. 3b (outer casing) with weld, FIG. 4 (lockcore) show how to assemble lock; FIG. 6A (lock arm) is inserted into lock arm slot and secured with FIG. 7 (lock arm securing pin) which are pressed into holes drilled in both sides of the core. Holes are also drilled in face of core, and bottom to secure spring pin, (see FIGS. 4c and 4d) on page 2 of 7.~~

~~Cut sheet metal to size (see FIGS. 1,2,3) make all cuts, holes, indentations, slots, grooves and circles; (see FIGS. 1a,2a,3a) Allow {fraction (1/16)}. Sup.th off an inch for tooling, dye cuts and squaring. All sheet metal parts are made on punch press with custom tools and dyes. Form to shape and size: (see FIGS. 1b,2b,3b) center piece of lock is formed by aluminum extrusion dye shown in FIG. 4a on page 1 of 7. FIG. 4 Shows different view of lock core, FIGS. 4b and 4c. Base plate is cut from section of FIG. 2a, locking notches are made at the same time, base plate is 3/8.sup.th inches in diameter.times. {fraction (1/64)} inches thick, locking notches are {fraction (1/16)} of inch high (see FIG. 5a). Device will require two locking arms, four casing studs and two locking arms securing pins 1/8.sup.th of an inch long. See FIGS. 6 and 7 on page 2 of 7. It will also need to springs pins 1/8.sup.th of an inch long, {fraction (5/64)} .sup.th of an inch in diameter with flared head (see FIG.8). Next, you will need two springs (see FIG. 9). All of the above parts can be prefabricated or customized in metal shop. The next step is to secure inner casing to lock core. Lock core is inserted into FIG. 2b, and secured with 7a (casing studs), FIG. 6(lock arm) is placed into lock arm slot and secured with FIG. 7b. Insert FIG. 8 (spring pin)(see page 3 of 7) into spring hole, securing FIGS. 9 and 9a (springs) to bottom of lock core. FIG. 2b is inserted in FIG. 3b and secured with fold over flaps. See diagram page 4 of 7.~~

~~Next, drill hole in gun, just below safety, hole should be  $\frac{11}{32}$  off an inch in diameter, (see page 5 of 7). Insert lock and secure with weld. See pages 5 of 7 and 6 of 7, and 7 of 7, they show lock in safe position and fire position. Add cover (FIG. 12)(see page 3 of 7) and seal to lock, Gun is ready to fire, cover is prefabricated from manufacturer. This lock prevents the safety from disengaging, it also prevents the slide from moving back to engage a round, thus preventing weapon from firing when lock is in the safe position. Turn the key counter clockwise to disengage the lock so the safety can be moved to the firing position. (see FIG. 5 of 7 and 6 of 7). This device requires three pieces of sheet metal cut to specifications, (see FIG. 1) 1 inch X's  $\frac{5}{8}$  sup.th of an inch X's  $\frac{1}{16}$  sup.th of an inch for key and key ring (see FIG. 2) inch X's  $\frac{1}{4}$  of an inch X's  $\frac{1}{32}$  sup.nd of an inch for outer casing, lock core is formed by aluminum extrusion  $\frac{3}{16}$  sup.th of an inch X's  $\frac{11}{32}$  sup.nd of an inch (see FIG. 4a). The overall diameter is  $\frac{13}{32}$  sup.nd of an inch. This device will address the need of government, federal, state, local and private sectors for a hand gun safety device that is effective and easy to operate. This device is easy to make and inexpensive to install on existing weapons as well as new weapons. The safety lock would require only minor modification of new weapons and is easy to install on existing ones.~~



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I claim: (cancelled)

1. ~~This device will address the need of government, federal, state, local and private Sectors for a handgun safety device that is effective and easy to operate. This device is easy to make and inexpensive to install on existing weapons as well as new weapons. The safety lock would require only minor modification of new weapons and is easy to install on existing ones.~~

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